Please replace the text of the ABSTRACT with the following amended ABSTRACT:

A laser scan type fluorescence microscope ~~comprises~~ includes a laser light source section, an objective ~~lens~~ optical system ~~by which~~ for condensing excitation light from the laser light source section ~~is condensed~~ on a sample, a scanning ~~means by which~~ device to scan a surface of the sample with the excitation light from the laser light source section ~~is scanned on a surface of the sample~~, a pupil projection lens arranged between the scanning ~~means~~ device and the objective ~~lens~~ optical system, a detection optical system for detecting fluorescence ~~which is emanated~~ that emanates from the sample and ~~has penetrated~~ passes the objective ~~lens~~ optical system and the pupil projection lens. ~~Here, the~~ The objective ~~lens~~ optical system has an objective lens and an image forming lens for forming an intermediate image of ~~an objective lens and~~ the sample, and a ~~backside~~ back focal position of the objective lens ~~becomes~~ is made conjugate ~~at~~ with a position near the scanning ~~means~~ device by the image forming lens and the pupil projection lens, wherein the following condition is satisfied: $0.15 \leq D/L \leq 0.5$, where D is ~~the focal length~~ a parfocal distance of the objective lens, and L is ~~the~~ a distance from the sample surface to the ~~conjugate~~ position ~~of~~ conjugate with the ~~backside~~ back focal position of the objective lens ~~arranged~~ and located near the scanning ~~means from the sample surface~~ device.